

PAGE: 1

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/276,935ADATE: 04/20/2000
TIME: 12:00:29

Input Set: I276935A.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

ENTERED

1 <110> APPLICANT: KLEWER, Steven A.
2 JONES, Stacey A.
3 WILLSON, Timothy M.
4 <120> TITLE OF INVENTION: AN ORPHAN NUCLEAR RECEPTOR
5 <130> FILE REFERENCE: 510-125
6 <140> CURRENT APPLICATION NUMBER: US/09/276,935A
7 <141> CURRENT FILING DATE: 1999-03-26
8 <150> EARLIER APPLICATION NUMBER: 60/079,593
9 <151> EARLIER FILING DATE: 1998-03-27
10 <160> NUMBER OF SEQ ID NOS: 14
11 <170> SOFTWARE: PatentIn Ver. 2.0
12 <210> SEQ ID NO 1
13 <211> LENGTH: 20
14 <212> TYPE: DNA
15 <213> ORGANISM: Artificial Sequence
16 <220> FEATURE:
17 <223> OTHER INFORMATION: Description of Artificial Sequence: DNA genome
18 <400> SEQUENCE: 1
19 ctgctgcgca tccaggacat 20
20 <210> SEQ ID NO 2
21 <211> LENGTH: 45
22 <212> TYPE: DNA
23 <213> ORGANISM: Artificial Sequence
24 <220> FEATURE:
25 <223> OTHER INFORMATION: Description of Artificial Sequence: DNA genome
26 <400> SEQUENCE: 2
27 gggtgtgggg aatccaccac catggaggtg agacccaaag aaagc 45
28 <210> SEQ ID NO 3
29 <211> LENGTH: 34
30 <212> TYPE: DNA
31 <213> ORGANISM: Artificial Sequence
32 <220> FEATURE:
33 <223> OTHER INFORMATION: Description of Artificial Sequence: DNA genome
34 <400> SEQUENCE: 3
35 gggtgtgggg gatcctcagc tacctgtgat gccg 34
36 <210> SEQ ID NO 4
37 <211> LENGTH: 31
38 <212> TYPE: DNA
39 <213> ORGANISM: Artificial Sequence
40 <220> FEATURE:
41 <223> OTHER INFORMATION: Description of Artificial Sequence: DNA genome
42 <400> SEQUENCE: 4
43 gatcagacag ttcatgaagt tcatctagat c 31
44 <210> SEQ ID NO 5

PAGE: 2

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/276,935ADATE: 04/20/2000
TIME: 12:00:29

Input Set: I276935A.RAW

45 <211> LENGTH: 29
46 <212> TYPE: DNA
47 <213> ORGANISM: Artificial Sequence
48 <220> FEATURE:
49 <223> OTHER INFORMATION: Description of Artificial Sequence: DNA genome
50 <400> SEQUENCE: 5
51 gatcaatatg aactcaaagg aggtcagtg 29
52 <210> SEQ ID NO 6
53 <211> LENGTH: 29
54 <212> TYPE: DNA
55 <213> ORGANISM: Artificial Sequence
56 <220> FEATURE:
57 <223> OTHER INFORMATION: Description of Artificial Sequence: DNA genome
58 <400> SEQUENCE: 6
59 gatcaatatg aactcaaagg aggtcagtg 29
60 <210> SEQ ID NO 7
61 <211> LENGTH: 29
62 <212> TYPE: DNA
63 <213> ORGANISM: Artificial Sequence
64 <220> FEATURE:
65 <223> OTHER INFORMATION: Description of Artificial Sequence: DNA genome
66 <400> SEQUENCE: 7
67 gatcaatatg ttctcaaagg agaacagtg 29
68 <210> SEQ ID NO 8
69 <211> LENGTH: 29
70 <212> TYPE: DNA
71 <213> ORGANISM: Artificial Sequence
72 <220> FEATURE:
73 <223> OTHER INFORMATION: Description of Artificial Sequence: DNA genome
74 <400> SEQUENCE: 8
75 gatcaataac aactcaaagg aggtcagtg 29
76 <210> SEQ ID NO 9
77 <211> LENGTH: 32
78 <212> TYPE: DNA
79 <213> ORGANISM: Artificial Sequence
80 <220> FEATURE:
81 <223> OTHER INFORMATION: Description of Artificial Sequence: DNA genome
82 <400> SEQUENCE: 9
83 gatgcagaca gttcatgaag ttcatctaga tc 32
84 <210> SEQ ID NO 10
85 <211> LENGTH: 11
86 <212> TYPE: PRT
87 <213> ORGANISM: Artificial Sequence
88 <220> FEATURE:
89 <223> OTHER INFORMATION: Description of Artificial Sequence: Protein
90 <400> SEQUENCE: 10
91 Met Lys Lys Gly His His His His His Gly
92 1 5 10
93 <210> SEQ ID NO 11
94 <211> LENGTH: 316

PAGE: 3

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/276,935ADATE: 04/20/2000
TIME: 12:00:29

Input Set: I276935A.RAW

95 <212> TYPE: PRT
 96 <213> ORGANISM: Artificial Sequence
 97 <220> FEATURE:
 98 <223> OTHER INFORMATION: Description of Artificial Sequence: Protein
 99 <400> SEQUENCE: 11

100 Met Lys Lys Gly His His His His His His Gly Ser Glu Arg Thr Gly
 101 1 5 10 15
 102 Thr Gln Pro Leu Gly Val Gln Gly Leu Thr Glu Glu Gln Arg Met Met
 103 20 25 30
 104 Ile Arg Glu Leu Met Asp Ala Gln Met Lys Thr Phe Asp Thr Thr Phe
 105 35 40 45
 106 Ser His Phe Lys Asn Phe Arg Leu Pro Gly Val Leu Ser Ser Gly Cys
 107 50 55 60
 108 Glu Leu Pro Glu Ser Leu Gln Ala Pro Ser Arg Glu Glu Ala Ala Lys
 109 65 70 75 80
 110 Trp Ser Gln Val Arg Lys Asp Leu Cys Ser Leu Lys Val Ser Leu Gln
 111 85 90 95
 112 Leu Arg Gly Glu Asp Gly Ser Val Trp Asn Tyr Lys Pro Pro Ala Asp
 113 100 105 110
 114 Ser Gly Gly Lys Glu Ile Phe Ser Leu Leu Pro His Met Ala Asp Met
 115 115 120 125
 116 Ser Thr Tyr Met Phe Lys Gly Ile Ile Ser Phe Ala Lys Val Ile Ser
 117 130 135 140
 118 Tyr Phe Arg Asp Leu Pro Ile Glu Asp Gln Ile Ser Leu Leu Lys Gly
 119 145 150 155 160
 120 Ala Ala Phe Glu Leu Cys Gln Leu Arg Phe Asn Thr Val Phe Asn Ala
 121 165 170 175
 122 Glu Thr Gly Thr Trp Glu Cys Gly Arg Leu Ser Tyr Cys Leu Glu Asp
 123 180 185 190
 124 Thr Ala Gly Gly Phe Gln Gln Leu Leu Glu Pro Met Leu Lys Phe
 125 195 200 205
 126 His Tyr Met Leu Lys Lys Leu Gln Leu His Glu Glu Glu Tyr Val Leu
 127 210 215 220
 128 Met Gln Ala Ile Ser Leu Phe Ser Pro Asp Arg Pro Gly Val Leu Gln
 129 225 230 235 240
 130 His Arg Val Val Asp Gln Leu Gln Glu Gln Phe Ala Ile Thr Leu Lys
 131 245 250 255
 132 Ser Tyr Ile Glu Cys Asn Arg Pro Gln Pro Ala His Arg Phe Leu Phe
 133 260 265 270
 134 Leu Lys Ile Met Ala Met Leu Thr Glu Leu Arg Ser Ile Asn Ala Gln
 135 275 280 285
 136 His Thr Gln Arg Leu Leu Arg Ile Gln Asp Ile His Pro Phe Ala Thr
 137 290 295 300
 138 Pro Leu Met Gln Glu Leu Phe Gly Ile Thr Gly Ser
 139 305 310 315

140 <210> SEQ ID NO 12
 141 <211> LENGTH: 242
 142 <212> TYPE: PRT
 143 <213> ORGANISM: Artificial Sequence
 144 <220> FEATURE:

PAGE: 4

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/276,935ADATE: 04/20/2000
TIME: 12:00:29

Input Set: I276935A.RAW

145 <223> OTHER INFORMATION: Description of Artificial Sequence: Protein
 146 <400> SEQUENCE: 12
 147 Met Lys Lys Gly Ser Ala Asn Glu Asp Met Pro Val Glu Arg Ile Leu
 148 1 5 10 15
 149 Glu Ala Glu Leu Ala Val Glu Pro Lys Thr Glu Thr Tyr Val Glu Ala
 150 20 25 30
 151 Asn Met Gly Leu Asn Pro Ser Ser Pro Asn Asp Pro Val Thr Asn Ile
 152 35 40 45
 153 Cys Gln Ala Ala Asp Lys Gln Leu Phe Thr Leu Val Glu Trp Ala Lys
 154 50 55 60
 155 Arg Ile Pro His Phe Ser Glu Leu Pro Leu Asp Asp Gln Val Ile Leu
 156 65 70 75 80
 157 Leu Arg Ala Gly Trp Asn Glu Leu Leu Ile Ala Ser Phe Ser His Arg
 158 85 90 95
 159 Ser Ile Ala Val Lys Asp Gly Ile Leu Leu Ala Thr Gly Leu His Val
 160 100 105 110
 161 His Arg Asn Ser Ala His Ser Ala Gly Val Gly Ala Ile Phe Asp Arg
 162 115 120 125
 163 Val Leu Thr Glu Leu Val Ser Lys Met Arg Asp Met Gln Met Asp Lys
 164 130 135 140
 165 Thr Glu Leu Gly Cys Leu Arg Ala Ile Val Leu Phe Asn Pro Asp Ser
 166 145 150 155 160
 167 Lys Gly Leu Ser Asn Pro Ala Glu Val Glu Ala Leu Arg Glu Lys Val
 168 165 170 175
 169 Tyr Ala Ser Leu Glu Ala Tyr Cys Lys His Lys Tyr Pro Glu Gln Pro
 170 180 185 190
 171 Gly Arg Phe Ala Lys Leu Leu Leu Arg Leu Pro Ala Leu Arg Ser Ile
 172 195 200 205
 173 Gly Leu Lys Cys Leu Glu His Leu Phe Phe Lys Leu Ile Gly Asp
 174 210 215 220
 175 Thr Pro Ile Asp Thr Phe Leu Met Glu Met Leu Glu Ala Pro His Gln
 176 225 230 235 240
 177 Met Thr
 178 <210> SEQ ID NO 13
 179 <211> LENGTH: 2146
 180 <212> TYPE: DNA
 181 <213> ORGANISM: Artificial Sequence
 182 <220> FEATURE:
 183 <223> OTHER INFORMATION: Description of Artificial Sequence: DNA genome
 184 <400> SEQUENCE: 13
 185 tgaaatatacg gtgagagaca agattgtctc atatccgggg aaatcataac ctatgactag 60
 186 gacggaaaga ggaagcactg ctttacttc agtggaaatc tcggcctcag cctgcaagcc 120
 187 aagtgttcac agtgagaaaa gcaagagaat aagctaatac tcctgtcctg aacaaggcag 180
 188 cggctccttg gtaaagctac tcctgtatcg atcccttgcg ccggattgtt caaagtggac 240
 189 cccaggggag aagtcggagc aaagaactta ccaccaagca gtccaagagg cccagaagca 300
 190 aacctggagg tgagaccaa agaaagtgg aaccatgctg actttgtaca ctgtgaggac 360
 191 acagagtctg ttcctggaaa gcccagtgtc aacgcagatg aggaagtgg aggtccccaa 420
 192 atctgccgtg tatgtgggg acaaggccact ggctatcact tcaatgtcat gacatgtgaa 480
 193 ggatgcaagg gcttttcag gagggccatg aaacgcaacg cccggctgag gtcccccttc 540
 194 cggaaggcgc cctgcgagat caccggaaag acccggcgac agtgccaggc ctgccccttc 600

PAGE: 5

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/276,935ADATE: 04/20/2000
TIME: 12:00:29

Input Set: I276935A.RAW

195 cgcaagtgcc tggagagcgg catgaagaag gagatgatca tgtccgacga gcccggtggag 660
 196 gagaggcggg cttgatcaa gcgaaagaaa agtgaacgga cagggactca gccactggga 720
 197 qtgcaggggc tgacagagga gcagcggatg atgatcaggg agctgatgga cgctcagatg 780
 198 aaaaccttg acactacctt ctcccatttc aagaatttc ggctgccagg ggtgcttagc 840
 199 agtggctgca agttgccaga gtctctgcag gccccatcga gggaaagaagc tgccaaagtgg 900
 200 agccaggtcc gaaaagatct gtgcctttg aaggctctc tgagctgcg gggggaggat 960
 201 ggcagtgct ggaactacaa acccccagcc gacagtggcg gggaaagagat cttctccctg 1020
 202 ctgccccaca tggctgacat gtcaacctac atgttcaaag gcatcatcag ctttgccaaa 1080
 203 gtcatctcct acttcaggga cttgcccatac gaggaccaga tctccctgct gaaggggggcc 1140
 204 gcttcgagc tggctcaact gagattcaac acagtgttca acgcggagac tggaaacctgg 1200
 205 gagggtggcc ggctgtccta ctgcttggaa gacactgcag gtggcttcca gcaacttcata 1260
 206 ctggagccca tgctgaaatt ccactacatg ctgaagaagc tgagctgca tgaggaggag 1320
 207 tatgtgctga tgaggccat ctcccatttc tccccagacc gcccagggtgt gctgcagcac 1380
 208 cgctgtgggg accagctgca ggagcaattc gcccattactc tgaagtccta cattgaatgc 1440
 209 aatcgcccccc agcctgctca taggttcttg ttctctgaaga tcatggctat gtcaccggag 1500
 210 ctccgcagca tcaatgctca gcacacccag cggctgctgc gcatccagga catacaccccc 1560
 211 ttgctacgc ccctcatgca ggagttgttc ggcattcacag gtagctgagc gctgcccctt 1620
 212 ggggtgacacc tccgagaggc agccagaccc agagccctct gagccgccac tcccgccca 1680
 213 agacagatgg acactgccaa gagccgacaa tggctctgctg gcctgtctcc ctatggaaatt 1740
 214 cctgctatga cagctggcta gcatttcata ggaaggacat ggggtggggcc caccggccat 1800
 215 tcagtcgtta gggagtgaag ccacagactc ttacgtggag agtgcactga cctgttaggtc 1860
 216 aggaccatca gagaggcaag gttgccttt ccttttaaaa ggcctgtgg tctggggaga 1920
 217 aatccctcag atcccactaa agtgcataagg tggaaagg accaagcgcac caaggatagg 1980
 218 ccatctgggg tctatgcccata accccacag ttgttcgct tcctgagtct tttcattgtct 2040
 219 acctctaata gtccctgtc ccaacttccca ctcgttcccc tcctttccg agctgctttg 2100
 220 tgggctccag gcctgtactc atcggcaggt gcatgagtat ctgtgg 2146

221 <210> SEQ ID NO 14

222 <211> LENGTH: 414

223 <212> TYPE: PRT

224 <213> ORGANISM: Artificial Sequence

225 <220> FEATURE:

226 <223> OTHER INFORMATION: Description of Artificial Sequence: Protein

227 <400> SEQUENCE: 14

| | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 228 | Leu | Glu | Val | Arg | Pro | Lys | Glu | Ser | Trp | Asn | His | Ala | Asp | Phe | Val | His |
| 229 | 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| 230 | Cys | Glu | Asp | Thr | Glu | Ser | Val | Pro | Gly | Lys | Pro | Ser | Val | Asn | Ala | Asp |
| 231 | | | | | 20 | | | | | 25 | | | | | 30 | |
| 232 | Glu | Glu | Val | Gly | Gly | Pro | Gln | Ile | Cys | Arg | Val | Cys | Gly | Asp | Lys | Ala |
| 233 | | | | | 35 | | | | | 40 | | | | | 45 | |
| 234 | Thr | Gly | Tyr | His | Phe | Asn | Val | Met | Thr | Cys | Glu | Gly | Cys | Lys | Gly | Phe |
| 235 | | | | | 50 | | | | 55 | | | | | | 60 | |
| 236 | Phe | Arg | Arg | Ala | Met | Lys | Arg | Asn | Ala | Arg | Leu | Arg | Cys | Pro | Phe | Arg |
| 237 | | | | | 65 | | | | 70 | | | | | | 80 | |
| 238 | Lys | Gly | Ala | Cys | Glu | Ile | Thr | Arg | Lys | Thr | Arg | Arg | Gln | Cys | Gln | Ala |
| 239 | | | | | | 85 | | | | 90 | | | | | 95 | |
| 240 | Cys | Arg | Leu | Arg | Lys | Cys | Leu | Glu | Ser | Gly | Met | Lys | Lys | Glu | Met | Ile |
| 241 | | | | | | 100 | | | | 105 | | | | | 110 | |
| 242 | Met | Ser | Asp | Glu | Ala | Val | Glu | Glu | Arg | Arg | Ala | Leu | Ile | Lys | Arg | Lys |
| 243 | | | | | | 115 | | | | 120 | | | | | 125 | |
| 244 | Lys | Ser | Glu | Arg | Thr | Gly | Thr | Gln | Pro | Leu | Gly | Val | Gln | Gly | Leu | Thr |

PAGE: 6

VERIFICATION SUMMARY
PATENT APPLICATION US/09/276,935A

DATE: 04/20/2000
TIME: 12:00:29

Input Set: I276935A.RAW

Line ? Error/Warning

Original Text